

# Recovery Plan Action Status

Plan Name: Revised Recovery Plan for the U.S. Breeding Population of the Wood Stork

Plan Status: Final Revision 1

Plan Date: 27-Jan-97

Lead Agency: USFWS

Lead Office: North Florida Ecological Services Field Office

(1994)

(232-2580 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Wood stork (Mycteria americana)	1	1.1.1	Locate nesting habitat	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Research: Habitat Requirements	Contract	5K/state/year. Begin new 5yr cycle in yr 2001.
Wood stork (Mycteria americana)	1	1.1.2	Locate roosting and foraging habitat	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Research: Habitat Requirements	Contract	See Bryan 1995.

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Wood stork (Mycteria americana)	2	1.2	Prioritize habitat	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, National Audubon Society, Florida Game and Fresh Water Fish Commission, American Association of Zoological Parks and Aquariums, The Nature Conservancy, U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory, The Georgia Conservancy, Big Cypress National Preserve, Everglades National Park	Management: Land Use	Internal Field Assistance	Costs are staff time.

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Wood stork (Mycteria americana)	1	1.3.1	Inform landowners	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, National Audubon Society, Florida Game and Fresh Water Fish Commission, American Association of Zoological Parks and Aquariums, The Nature Conservancy, U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory, The Georgia Conservancy, Big Cypress National Preserve, Everglades National Park	Other: Information and Education	Internal Administrative	Costs are staff time.
Wood stork (Mycteria americana)	2	1.3.2	Provide assistance and support to landowners in managing property	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Fisheries, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, The Georgia Conservancy	Management: Habitat Maintenance and Manipulation	Internal Administrative	Cannot determine specific costs at this time. Assistance would be on a site by site basis.

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Wood stork (Mycteria americana)	2	1.3.3	Develop management plans for private lands	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Fisheries, U.S. Fish and Wildlife Service National Wildlife Refuge System, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Management	Internal Administrative	Costs are staff time.
Wood stork (Mycteria americana)	2	1.4	Acquire land	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Division of Realty, U.S. Fish and Wildlife Service National Wildlife Refuge System, The Nature Conservancy, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Acquisition	Internal Administrative	Cannot determine specific costs at this time. Need to complete task 1.2 first.
Wood stork (Mycteria americana)	1	1.5	Protect sites from disturbance	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Management: Habitat Maintenance and Manipulation	Internal Administrative	Costs are staff time.

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Wood stork (Mycteria americana)	1	1.6	Use existing regulatory mechanisms to protect habitat	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Other: Law Enforcement	Internal Administrative	Costs are staff time.
Wood stork (Mycteria americana)	2	2.1.1	Analyze report on South Florida restoration	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Everglades National Park	Management	Internal Administrative	Initiated.
Wood stork (Mycteria americana)	2	2.1.2	Develop models of colony dynamics in South Florida wetlands	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Everglades National Park	Research: Other Information	Contract	On-going. Funding will allow completion and evaluation of model.
Wood stork (Mycteria americana)	2	2.1.3	Provide feedback for adaptive restoration planning.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Everglades National Park	Management: Planning	Internal Technical Assistance	Part of the long-term restoration planning.
Wood stork (Mycteria americana)	2	2.1.4	Organize systematic census in Big Cypress Region	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, National Audubon Society, Big Cypress National Preserve	Research: Population Surveys	Contract	Should occur in all years of statewide census.

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Wood stork (Mycteria americana)	2	2.2.1	Improve colony success/productivity by impounding suitable sites	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, National Audubon Society, Florida Game and Fresh Water Fish Commission, American Association of Zoological Parks and Aquariums, The Nature Conservancy, U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory, The Georgia Conservancy, Big Cypress National Preserve, Everglades National Park	Management: Habitat Maintenance and Manipulation	Contract	Costs must be calculated on a site by site basis.
Wood stork (Mycteria americana)	2	2.2.1.1	Determine structural and vegetative characteristics of impounded sites	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Research: Habitat Requirements	Internal Field Assistance	

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Wood stork (Mycteria americana)	2	2.2.1.2	Conduct long-term monitoring	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Research: Population Surveys	Contract	
Wood stork (Mycteria americana)	3	2.2.3	Use artificial nest structures to attract storks to suitable habitat.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service National Wildlife Refuge System, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Work type not yet selected	Labor type not yet selected	Average cost per structure is \$500.
Wood stork (Mycteria americana)	2	2.3.1	Encourage impoundment management on public and private lands	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Fisheries, U.S. Fish and Wildlife Service National Wildlife Refuge System, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Management: Habitat Maintenance and Manipulation	Graduate Student	Costs incorporated into existing waterfowl impoundment management

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Wood stork (Mycteria americana)	3	2.3.2	Determine optimal drawdown time of impoundments.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Fisheries, U.S. Fish and Wildlife Service National Wildlife Refuge System, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Work type not yet selected	Labor type not yet selected	
Wood stork (Mycteria americana)	2	3.1.1	Determine movement patterns of fledglings and sub-adults	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Fisheries, U.S. Fish and Wildlife Service National Wildlife Refuge System, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Research: Population Surveys	Contract	
Wood stork (Mycteria americana)	2	3.1.2	Determine movement patterns of post-breeding adults	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Fisheries, U.S. Fish and Wildlife Service National Wildlife Refuge System, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Research: Population Surveys	Contract	Combine with action 3.1.1.



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Wood stork (Mycteria americana)	3	3.1.3	Determine origins of non-breeding populations.	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Work type not yet selected	Labor type not yet selected	
Wood stork (Mycteria americana)	2	3.2	Determine population genetics.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Work type not yet selected	Labor type not yet selected	Ongoing.
Wood stork (Mycteria americana)	1	3.3	Monitor productivity of stork populations	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Research: Population Surveys	Contract	Repeat task once every 5 Years. Estimated cost of \$10,000 per state.
Wood stork (Mycteria americana)	2	3.4	Monitor survivorship.	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources	Work type not yet selected	Labor type not yet selected	Costs depend upon method used for study. Duration is once every 5 years.

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Wood stork (Mycteria americana)	2	3.5	Determine extent of competition/cooperation between storks and other wading birds.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Work type not yet selected	Labor type not yet selected	
Wood stork (Mycteria americana)	3	3.6.1	Re-evaluate foraging studies in ENP.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, Everglades National Park	Work type not yet selected	Labor type not yet selected	Ongoing.
Wood stork (Mycteria americana)	2	3.6.2	Study foraging ecology along the coast.	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Work type not yet selected	Labor type not yet selected	
Wood stork (Mycteria americana)	3	3.6.3	Determine foraging requirements in non-breeding season	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Everglades National Park	Research	Contract	Combine with action 3.5.2.
Wood stork (Mycteria americana)	2	3.6.4	Continue studies of nocturnal foraging activities.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Work type not yet selected	Labor type not yet selected	Ongoing

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Wood stork (Mycteria americana)	3	3.6.5	Determine impacts of artificial feeding areas.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Fisheries, U.S. Fish and Wildlife Service National Wildlife Refuge System, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Work type not yet selected	Labor type not yet selected	
Wood stork (Mycteria americana)	2	3.7	Determine importance of roost sites	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Work type not yet selected	Labor type not yet selected	Could be combined with several other tasks
Wood stork (Mycteria americana)	2	3.8	Determine impacts of contaminants	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Environmental Contaminants, Georgia Department of Natural Resources, South Carolina Department of Natural Resources, Savannah River Ecology Laboratory	Work type not yet selected	Labor type not yet selected	

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Wood stork (Mycteria americana)	3	4.1.1	Develop and distribute educational materials	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service, Public Affairs, Georgia Department of Natural Resources, Savannah River Ecology Laboratory	Work type not yet selected	Labor type not yet selected	Complete task 4.1.1.1 in FY1, 4.1.1.2 in FY2 and 4.1.1.3 in FY3.
Wood stork (Mycteria americana)	3	4.2	Provide opportunities for the public to view wood storks in captivity	Not Started	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, American Association of Zoological Parks and Aquariums, U.S. Fish and Wildlife Service, Law Enforcement Division	Work type not yet selected	Labor type not yet selected	